=>

Uploading C:\Program Files\Stnexp\Queries\10591340-reaction.str

7 8 9 10 16 17 18 19
ring nodes:
1 2 3 4 5 11 12 13 14 15
chain bonds:
3-10 5-7 7-8 7-9 13-19 15-16 16-17 16-18
ring bonds:
1-2 1-5 2-3 3-4 4-5 11-12 11-15 12-13 13-14 14-15
exact/norm bonds:
1-2 1-5 2-3 3-4 3-10 4-5 5-7 7-8 7-9 11-12 11-15 12-13 13-14 13-19
14-15 15-16 16-17 16-18
isolated ring systems:

Match level :

containing 1 : 11 :

chain nodes :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:Atom 12:Atom 13:Atom 15:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

containing 11 node mappings:

7:16 5:15 4:14 3:13 2:12 1:11 8:17 9:18

L1 STRUCTURE UPLOADED

=> s 11 sss full

FULL SEARCH INITIATED 16:25:59 FILE 'CASREACT'

SCREENING COMPLETE - 26248 REACTIONS TO VERIFY FROM 1329 DOCUMENTS

100.0% DONE 26248 VERIFIED 150 HIT RXNS (4 INCOMP) 60 DOCS SEARCH TIME: 00.00.02

L3 60 SEA SSS FUL L1 (150 REACTIONS)

=> d tot

L3 ANSWER 1 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

Faming Zhuanli Shenqing Gongkai Shuomingshu, 101092383, 26 Dec 200 7 12 hours, reflux REF: CON:

ANSWER 2 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 3 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

ANSWER 4 OF 60 CASREACT COPYRIGHT 2008 ACS on STN L3

REF: Faming Zhuanli Shenqing Gongkai Shuomingshu, 1939904, 04 Apr

NOTE: solvent not specified, green chem.-catalyst

L3 ANSWER 5 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Bioorganic & Medicinal Chemistry, 15(7), 2631-2650; 2007 CON: STAGE(1) 0 deg c; 88 hours, room temperature STAGE(2) room temperature

L3 ANSWER 6 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of Combinatorial Chemistry, 9(1), 143-157; 2007 COM: STAGE(2) 0 deg C; 15 hours, 0 deg C -> room temperature

REF: Tetrahedron: Asymmetry, 17(17), 2479-2486; 2006 NOTE: optimized on oxidation conditions, optimization study CON: 15 hours, room temperature

L3 ANSWER 8 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 9 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Bioorganic & Medicinal Chemistry Letters, 16(18), 4856-4860; 2006

NOTE: Swern oxidation CON: STAGE(1) -78 deg C STAGE(2) -78 deg C -> room temperature

L3 ANSWER 10 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Chemistry--A European Journal, 12(15), 4121-4143; 2006 CON: 1 hour, room temperature

L3 ANSWER 11 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of Organic Chemistry, 71(13), 5004-5007, 2006 CON: STAGE(1) room temperature: 5' -78 deg'c; 1 hour, -78 deg C STAGE(2) 2 hours, -78 deg C STAGE(3) -78 deg'c; -78 deg C -> room temperature

L3 ANSWER 12 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Bioorganic & Medicinal Chemistry, 14(8), 2725-2746; 2006 CON: 3 days, room temperature

L3 ANSWER 13 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 14 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of Organic Chemistry, 70(26), 10860-10863; 2005 CON: reflux

(step 1)

Journal of Tanic Chemistry, 70(22), 9002-9008; 2005 Jones reagest used in stage 1 STAGE(1) 10 minutes, room temperature; 3 hours, room temperature STAGE(2) room temperature

ANSWER 16 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

Journal of Medicinal Chemistry, 48(23), 7333-7342; 2005 STAGE(1) 3 minutes, room temperature; 1 hour, room temperature STAGE(2) 20 minutes, room temperature REF:

L3 ANSWER 17 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 19 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: PCT Int. Appl., 2005082848, 09 Sep 2005

NOTE: Workup CON: STAGE(1) room temperature -> 40 deg C; 40 deg C -> 10 deg C; STAGE(2) 5 - 10 minutes; 1 - 3 hour, 15 - 25 deg C; STAGE(3) 230 2eg C deg C L3 ANSWER 20 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

Tetrahedron Letters, 46(30), 4985-4987; 2005 green chem.-process simplification, mol. sieves used, other teagent gave somewhat higher yield but less safe reaction STAGS(1) 15 minutes, room temperature STAGS(2) 5 minutes, room temperature; 210 minutes CON:

L3 ANSWER 21 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

ANSWER 22 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 23 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

RX(5) OF 51

REF: PCT Int. Appl., 2005037860, 28 Apr 2005 NOTE: Jones reagent used

L3 ANSWER 24 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 25 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of Organic Chemistry, 70(3), 898-906; 2005 NOTE: celite used CON: STAGE(1) 0 deg C; overnight, room temperature

REF: Journal of Organic Chemistry, 70(2), 499-504; 2005 CON: STAGE(1) 20 minutes, -78 deg C; 24 hours, -40 deg C STAGE(2) -40 deg C -> room temperature

L3 ANSWER 27 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: PCT Int. Appl., 2005007681, 27 Jan 2005 CON: STAGE (1) room temperature -> 4 deg C STAGE (2) 30 minutes, 4 deg C; 10 minutes, 4 deg C

L3 ANSWER 28 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Bicorganic & Medicinal Chemistry Letters, 14(22), 5699-5702; NOTE: key intermediate

ANSWER 29 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Tetrahedron: Asymmetry, 14(19), 3033-3041; 2003 NOTE: Florisil used CON: 10 hours, room temperature

ANSWER 30 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 31 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of the American Chemical Society, 125(16), 4702-4703;

NOTE: Jones' reagent used CON: STAGE(1) 5 minutes, 20 deg C; 30 minutes, 20 deg C

L3 ANSWER 32 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Russian Journal of Bioorganic Chemistry (Translation of Bioorganicheskaya Khimiya), 28(6), 444-449; 2002

48%

NOTE: literature prepn. stage 3 CON: STAGE(1) 2.5 hours, 20 deg C STAGE(2) 0 deg C, pH 2 - 3

L3 ANSWER 33 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of Organic Chemistry, 67(20), 7162-7164; 2002

REF: Angewandte Chemie, International Edition, 41(9), 1600-1602;

L3 ANSWER 35 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 36 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 37 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

RX(2) OF 14

REF: Tetrahedron Letters, 38(30), 5399-5402; 1997 NOTE: literature ref.

L3 ANSWER 38 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 39 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 40 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

RX(1) OF 15

REF: Symlett, (1), 95-6; 1996

L3 ANSWER 41 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 42 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Chemical & Pharmaceutical Bulletin, 43(10), 1617-20; 1995

L3 ANSWER 43 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

94% REF: Chemical & Pharmaceutical Bulletin, 43(8), 1302-6; 199

L3 ANSWER 44 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 45 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 46 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Tetrahedron Letters, 36(27), 4869-72; 1995

L3 ANSWER 47 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 48 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 49 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 50 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 51 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 52 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

REF: Journal of Medicinal Chemistry, 33(6), 1606-15; 1990

REF: Journal of Organic Chemistry, 54(24), 5746-58; 1989

L3 ANSWER 54 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 55 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 56 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 57 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 58 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 59 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 60 OF 60 CASREACT COPYRIGHT 2008 ACS on STN

=> log hold COST IN U.S. DOLLARS

 COST IN U.S. DOLLARS
 SINCE FILE
 TOTAL

 FULL ESTIMATED COST
 178.06
 297.39

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 16:29:54 ON 14 APR 2008